

INFORMATION DISCLOSURE CITATION <small>(Use several sheets if necessary)</small>				Docket Number (Optional) JPSA001		Application Number 10/782,741	
				Applicant(s) SERCEL ET AL			
				Filing Date February 19, 2004		Group Art Unit 2873	

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 AUG 16 2005
 PATENT & TRADEMARK OFFICE

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AE	1	4,752,922	6/21/1998	MACANALLY ET AL	369	32	
AE	2	6,676,878	1/13/2004	O'BRIEN ET AL	264	400	

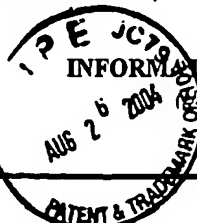
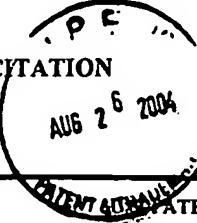
U.S. PATENT APPLICATION PUBLICATIONS							
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	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO

OTHER DOCUMENTS			<small>(Including Author, Title, Date, Pertinent Pages, Etc.)</small>
AE	3	International Search Report mailed May 12, 2005 received in corresponding PCT application No. PCT/US04/04897 (3pgs).	
AE	4	Written Opinion mailed May 12, 2005, received in corresponding PCT application No. PCT/US04/04897 (3 pgs).	

EXAMINER M. Alexandra Elve	DATE CONSIDERED 10/6/05
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INFORMATION DISCLOSURE CITATION <small>(Use several sheets if necessary)</small>							
Applicant(s) SERCEL ET AL				Filing Date FEBRUARY 19, 2004			
Group Art Unit				Patent Documents			

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AE	1	5,631,190	5/20/1997	NEGLEY	438	33	
	2	6,580,054	6/17/2003	LIU ET AL	219	121.68	
	3	6,472,295	10/29/2002	MORRIS ET AL	438	463	
	4	2002/0149136	10/17/2002	BAIRD ET AL	264	400	
AE	5	6,130,401	10/10/2000	YOO ET AL	219	121.6	

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AE	6	2002/0031899	3/14/2002	MANOR	438	460	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
AE	7	JP11163403	6/18/1999	JAPAN -2 English abstracts	H01L	33/00		✓
	8	WO 02/41362 A2	5/23/2002	PCT	H01L			
	9	WO 00/75983 A1	12/14/2000	PCT	H01L	784		
	10	EP 1137 072 A2	9/26/2001	EPO	H01L	29/201		
AE	11	55-151351	11/25/1980	JAPAN w/English abstract	H01L	21/78		✓

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AE	12	T. Villeneuve, "Nanosecond pulsed laser improve micro-machining", DesignNews (Reed Elsevier Inc.) 2001 Issue 11 pp. 33-35, June 4, 2001.
AE	13	D.Hellrung et al, "High-Accuracy Micromachining of Ceramics by Frequency-Tripled Nd:YAG-Lasers", Proceedings of SPIE-The International Society for Optical Engineering, vol. 3618 pp. 348-356, November 25-27, 1999.

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AE	14	5,932,118	8/3/1999	YAMAMOTO ET AL	219	121.66		
	15	5,864,171	1/26/1999	YAMAMOTO ET AL	257	628		
	16	5,543,365	8/6/1996	WILLS ET AL	437	226		
	17	3,629,545	12/21/1971	GRAHAM ET AL	219	121		
AE	18	3,699,644	10/24/1972	COCCA	29	527.2		
U.S. PATENT APPLICATION PUBLICATIONS								
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							YES	NO
AE	19	56-6451	1/23/1981	JAPAN w/English abstract	H01L	21/78		✓
	20	57-6650	1/13/1982	JAPAN w/English abstract	A61B	17/22		✓
	21	57-81985	5/22/1982	JAPAN w/English abstract	B23K	26/00		✓
	22	58-44738	3/15/1983	JAPAN w/English abstract	H01L	21/78		✓
AE	23	58-44739	3/15/1983	JAPAN w/English abstract	H01L	21/78		✓
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
AE	24	Lee, Jong-Moo et al, "Scribing Blue LED Wafer Using Laser-Induced Plasma-Assisted Ablation With a Q-Switched Nd:YAG Laser", Proceedings of SPIE, Laser Application in Microelectronic and Optoelectronic Manufacturing V, Volume 3933, January 24-26, 2000, Pgs. 237-244.						
AE	25	A. Ostendorf et al, "Material Processing Applications for Diode Pumped Solid State Lasers", Lambda Highlights, Lambda Physik, No. 57, May 2000, Pgs. 1-8.						
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AE	24	4,851,371	7/25/1989	FISHER ET AL	437	226	
	27	4,865,686	9/12/1989	SINOHARA	156	643	
	28	4,964,212	10/23/1990	DEROUX-DAUPHIN ET AL	29	852	
	29	4,992,393	2/12/1991	KOSAKA ET AL	437	83	
AE	30	5,075,201	12/24/1991	KOH	430	321	

U.S. PATENT APPLICATION PUBLICATIONS

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							YES	NO
AE	31	58-68946	4/25/1983	JAPAN w/English abstract	H01L	21/78		✓
	32	10-64854	3/6/1998	JAPAN w/English abstract	H01L	21/301		✓
	33	11-224866	8/17/1999	JAPAN w/English abstract	H01L	21/301		✓
	34	JP2000-4066	1/7/2000	JAPAN w/English abstract	H01S	5/30		✓
AE	35	JP2000-196186	7/14/2000	JAPAN w/English abstract	H01S	5/10		✓

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AE	36	Powell, Paula M., Senior Editor, "Diode-Pumped Solid-State Lasers: Manufacturing Matters", 2002 Global Photonics Market Forecast.
AE	37	Park, Jongkook and Sercel, Patrick, "High-Speed UV Laser Scribing Boosts Blue LED Industry", Compound Semiconductor, Volume 8, Number 11, December 2002.

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AE	38	6,117,347	9/12/2000	ISHIDA	216	52		
	39	6,140,151	10/31/2000	AKRAM	438	113		
	40	6,225,194	5/1/2001	NOGUCHI ET AL	438	464		
	41	3,626,141	12/7/1971	DALY	219	121		
AE	42	3,814,895	6/4/1974	FREDRIKSEN	219	121		
U.S. PATENT APPLICATION PUBLICATIONS								
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							YES	NO
AE	43	61-219535	9/29/1986	JAPAN w/English abstract	B23P	15/24		✓
	44	63-174793	7/19/1988	JAPAN w/English abstract	B23K	26/00		✓
	45	63-183885	7/29/1988	JAPAN w/English abstract	B41M	5/26		✓
AE	46	WO 03/028943 A1	4/10/2003	PCT	B23K	26/12		
	47	_____						
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
AE	48	Wiener-Avneer, Eli, "Laser Micromachining Creates Precise 3-D Structures", Laser Focus World-Optoelectronics and Laser Technology Advances, November 1998, Pgs. 1-4.						
AE	49	Lambda Physik, Lambda Highlights No. 18, "New Resist for 248 NM Successfully Investigated", August 1989, Pgs. 1-4.						
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U.S. PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
AE	50	4,921,564	5/1/1990	MOORE	156	344		
AE	51	5,057,664	10/15/1991	JOHNSON ET AL	219	121.69		
	52	33,947	6/2/1992	SHENOHARA	156	643		
AE	53	5,138,131	8/11/1992	NISHIKAWA ET AL	219	121.67		
AE	54	5,387,776	2/7/1995	PREISER	219	121.72		
U.S. PATENT APPLICATION PUBLICATIONS								
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							YES	NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
AE	55	Lambda Physik, "Gator", DPSS Lasers - Gator Series, May 2003.						
AE	56	Oxford Lasers, "Sapphire Wafer Scribing System", www.oxfordlasers.com.						
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AE	63	6,413,839	7/2/2002	BROWN ET AL	438	463	
	64	5,185,295	2/9/1993	GOTO ET AL	438	463	
	65	5,912,477	1/15/1999	NEGLEY	257	95	
	66	5,151,389	9/29/1992	ZAPPELLA	437	226	
AE	67	5,214,261	5/25/1993	ZAPPELLA	219	121.67	

U.S. PATENT APPLICATION PUBLICATIONS

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AE	68	5,922,224	7/13/1999	BROEKROELOFS	219	121.72	
	69	3,824,678	7/23/1974	HARRIS ET AL	29	578	
	70	3,970,819	7/20/1976	GATES ET AL	219	121	
	71	4,046,985	9/6/1977	GATES	219	121	
AE	72	4,224,101	9/23/1980	TIJBURG ET AL	156	643	

U.S. PATENT APPLICATION PUBLICATIONS

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AE	13	4,543,464	9/24/1985	TAKEUCHI	219	121	
	14	4,729,971	3/8/1988	COLEMAN	437	226	
	15	5,385,633	1/31/1995	RUSSELL ET AL	156	693	
	16	5,543,365	8/6/1996	WILLS ET AL	437	226	
AE	17	5,552,345	9/3/1996	SCHRANTZ ET AL	437	227	

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AE	78	5,641,416	6/24/1997	CHADHA	219	121.69	
	79	5,872,046	2/16/1999	KAERIYAMA ET AL	438	465	
	80	5,976,691	11/2/1999	NOGUCHI ET AL	428	354	
	81	3,816,700	6/11/1974	WEINER ET AL	219	121	
AE	82	4,237,601	12/9/1980	WOOLHOUSE ET AL	29	583	

U.S. PATENT APPLICATION PUBLICATIONS

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AC	83	4,336,439	6/22/1982	SASNETT ET AL	219	121	
	84	4,543,464	9/24/1985	TAKEUCHI	219	121	
	85	4,562,333	12/31/1985	TAUB ET AL	219	121	
	86	4,664,739	5/12/1987	AURICHIO	156	344	
AC	87	5,611,946	3/18/1997	LEONG ET AL	219	121.6	

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AE	88	5,626,777	5/6/1997	HUGL ET AL	219	121.72	
	89	5,627,109	5/6/1997	SASSA ET AL	438	460	
	90	5,703,713	12/30/1997	LEONG ET AL	359	352	
	91	5,801,356	9/1/1998	RICHMAN	219	121.68	
AE	92	5,809,987	9/22/1998	WARK ET AL	125	35	

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AE	93	6,057,525	5/2/2000	CHANGE ET AL	219	121.73		
	94	6,107,162	8/22/2000	MORITA ET AL	438	462		
	95	6,121,118	9/19/2000	JIN ET AL	438	460		
	96	6,365,429	4/2/2002	KNEISSL ET AL	438	46		
AE	97	6,509,546	1/21/2003	EGITTO ET AL	219	121.68		
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S.V. Govorkov et al, "High-Throughput Micromachining o Steel and Ceramics with Solid-State UV Laser", Proceedings of SPIE- The International Society for Optical Engineering, vol. 4065 pp. 790-800, April 24-28, 2000.

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Sercel, Jeffrey P., "Optimized Beam Delivery for Industrial Excimer Lasers - Excimers Fill a Niche in High-Precision Processing", Photonics Spectra, December 1991.

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New Wave Research - Merchantek Products, Press Release - "New Wave Research Unveils High Performance Deep UV Laser Ablation System", January 31, 2001.

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New Wave Research - Merchantek Products, Press Release - "New Wave Research Unveils Compact, Tabletop Microelectronics Machining System", November 26, 2001.

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J. Cashmore, M. Gower, P. Gruenewald, D. Karnakis, N. Rizvi and M. Whitfield, "High Resolution Micormachining Using Short Wavelength and Short Pulse Lasers", Exitech Ltd., Oxford, England.

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D.M. Karankis, J. Fieret, P.T. Rumsby and M.C. Gower, "Microhole Drilling Using Reshaped Pulsed Gaussian Laser Beams", Exitech Ltd., Oxford, United Kingdom, Pgs. 1-9.

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Herbst, Ludolf et al, "High Peak Power Solid State Laser For Micromachining of Hard Materials", Lambda Physik AG, Hans-Boeckler-Strasse 12, Goettingen, Germany; Lambda Physik Inc., 3201 West Commercial Blvd., Ft. Lauderdale, USA; Fraunhofer Institute of Material and Beam Technology, Winterbergstrasse 28, Dresden, Germany, January 7, 2003.

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Doclet Number (Optional)

JPSA 001

Application Number

10/782,741

Applicant(s)

SERCEL ET AL

Filing Date

FEBRUARY 19, 2004

Group Art Unit

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M. Alexandra Elve

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